

## QUINOLINE OR QUINAZOLIN DERIVATIVE AND MEDICINE CONTAINING THE SAME

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### Abstract

**PURPOSE:** To provide a new compound having an anti-inflammatory effect, an antipyretic and analgesic effect and an antiarthritic effect, reduced in toxicity and useful as an anti-inflammatory drug, especially a therapeutic agent for arthritis.

**CONSTITUTION:** A compound is represented by formula I [Y is N or CG (G is carboxyl); Ring R is a nitrogen-containing unsaturated heterocycle; (n) is 1 to 4; (k) is 0 to 1] or its salt, e.g. 6,7-dimethoxy-4-(3,4-dimethoxyphenyl)-2-(2-ethylimidazol-1-ylmethyl)quinoline-3-carboxylic acid ethyl ester. This compound is synthesized by reacting a compound of formula II (Q is an eliminable group) or its salt with a compound of formula III or its salt in the presence of a base such as sodium hydride in a solvent such as DMF preferably at -10 to 100 deg.C. In addition, the raw material compound of formula II is obtained, e.g. by reacting a 2-aminobenzophenone derivative of formula IV with a compound of the formula QCH<sub>2</sub>COCH<sub>2</sub>G' (G' is an esterified carboxyl) in the presence of an acid such as sulfuric acid.